

SEQUENCE LISTING

<110> Bayer, Robert

<120> In Vitro Modification of Glycosylation
Patterns of Recombinant Glycopeptides

<130> 040853-01-5108-US

<140> 09/855,320

<141> 2001-05-14

<150> 60/203,851

<151> 2000-05-12

<160> 2

<170> FastSEQ for windows Version 4.0

<210> 1

<211> 359

<212> PRT

<213> Human

<400> 1

```

Met Asp Pro Leu Gly Pro Ala Lys Pro Gln Trp Ser Trp Arg Cys Cys
1      5      10      15
Leu Thr Thr Leu Leu Phe Gln Leu Leu Met Ala Val Cys Phe Phe Ser
20      25      30
Tyr Leu Arg Val Ser Gln Asp Asp Pro Thr Val Tyr Pro Asn Gly Ser
35      40      45
Arg Phe Pro Asp Ser Thr Gly Thr Pro Ala His Ser Ile Pro Leu Ile
50      55      60
Leu Leu Trp Thr Trp Pro Phe Asn Lys Pro Ile Ala Leu Pro Arg Cys
65      70      75      80
Ser Glu Met Val Pro Gly Thr Ala Asp Cys Asn Ile Thr Ala Asp Arg
85      90      95
Lys Val Tyr Pro Gln Ala Asp Ala Val Ile Val His His Arg Glu Val
100     105     110
Met Tyr Asn Pro Ser Ala Gln Leu Pro Arg Ser Pro Arg Arg Gln Gly
115     120     125
Gln Arg Trp Ile Trp Phe Ser Met Glu Ser Pro Ser His Cys Trp Gln
130     135     140
Leu Lys Ala Met Asp Gly Tyr Phe Asn Leu Thr Met Ser Tyr Arg Ser
145     150     155     160
Asp Ser Asp Ile Phe Thr Pro Tyr Gly Trp Leu Glu Pro Trp Ser Gly
165     170     175
Gln Pro Ala His Pro Pro Leu Asn Leu Ser Ala Lys Thr Glu Leu Val
180     185     190
Ala Trp Ala Val Ser Asn Trp Gly Pro Asn Ser Ala Arg Val Arg Tyr
195     200     205
Tyr Gln Ser Leu Gln Ala His Leu Lys Val Asp Val Tyr Gly Arg Ser
210     215     220
His Lys Pro Leu Pro Gln Gly Thr Met Met Glu Thr Leu Ser Arg Tyr
225     230     235     240
Lys Phe Tyr Leu Ala Phe Glu Asn Ser Leu His Pro Asp Tyr Ile Thr
245     250     255
Glu Lys Leu Trp Arg Asn Ala Leu Glu Ala Trp Ala Val Pro Val Val
260     265     270
Leu Gly Pro Ser Arg Ser Asn Tyr Glu Arg Phe Leu Pro Pro Asp Ala
275     280     285
Phe Ile His Val Asp Asp Phe Gln Ser Pro Lys Asp Leu Ala Arg Tyr

```

290
 Leu Gln Glu Leu Asp Lys 295
 305 Trp Arg Glu Thr Leu 310
 Cys Lys Ala Cys 325
 340
 Gln Thr Arg
 355
 300
 Leu Ser Tyr Phe Arg
 315
 Trp Ala Leu Ala Phe
 330
 Glu Ser Arg Tyr Gln Thr Arg
 345
 350

<210> 2
 <211> 342
 <212> PRT
 <213> Human

<400> 2
 Met Asn Asn Ala Gly His Gly Pro Thr Arg Arg Leu Arg Gly Leu Gly
 1 Val Leu Ala Gly Val Ala Leu Leu Ala 10 Ala Leu Trp Leu 15
 20
 Leu Gly Ser Ala Pro Arg Gly Thr Pro Ala Pro Gln Pro Thr Ile Thr
 35 40 45
 Ile Leu Val Trp His Trp Pro Phe Thr Asp Gln Pro Pro Glu Leu Pro
 50 55 60
 Ser Asp Thr Cys Thr Arg Tyr Gly Ile Ala Arg Cys His Leu Ser Ala
 65 70 75
 Asn Arg Ser Leu Leu Ala Ser Ala Asp Ala Val Val Phe His His Arg
 85 90 95
 Glu Leu Gln Thr Arg Arg Ser His Leu Pro Leu Ala Gln Arg Pro Arg
 100 105 110
 Gly Gln Pro Trp Val Trp Ala Ser Met Glu Ser Pro Ser His Thr His
 115 120 125
 Gly Leu Ser His Leu Arg Gly Ile Phe Asn Trp Val Leu Ser Tyr Arg
 130 135 140
 Arg Asp Ser Asp Ile Phe Val Pro Tyr Gly Arg Leu Glu Pro His Trp
 145 150 155
 Gly Pro Ser Pro Pro Leu Pro Ala Lys Ser Arg Val Ala Ala Trp Val
 165 170 175
 Val Ser Asn Phe Gln Glu Arg Gln Leu Arg Ala Arg Leu Tyr Arg Gln
 180 185 190
 Leu Ala Pro His Leu Arg Val Asp Val Phe Gly Arg Ala Asn Gly Arg
 195 200 205
 Pro Leu Cys Ala Ser Cys Leu Val Pro Thr Val Ala Gln Tyr Arg Phe
 210 215 220
 Tyr Leu Ser Phe Glu Asn Ser Gln His Arg Asp Tyr Ile Thr Glu Lys
 225 230 235 240
 Phe Trp Arg Asn Ala Leu Val Ala Gly Thr Val Pro Val Val Leu Gly
 245 250 255
 Pro Pro Arg Ala Thr Tyr Glu Ala Phe Val Pro Ala Asp Ala Phe Val
 260 265 270
 His Val Asp Asp Phe Gly Ser Ala Arg Glu Leu Ala Ala Phe Leu Thr
 275 280 285
 Gly Met Asn Glu Ser Arg Tyr Thr Asp Trp Arg Glu Trp Arg Asp Arg
 290 295 300
 Leu Arg Val Arg Leu Phe Thr Asp Trp Arg Glu Arg Phe Cys Ala Ile
 305 310 315 320
 Cys Asp Arg Tyr Pro His Leu Pro Arg Ser Gln Val Tyr Glu Asp Leu
 325 330 335
 Glu Gly Trp Phe Gln Ala
 340